**SQL**

**ASSIGNMENT 3**

**Assignment 3 : Retrieve data using Group By clause**

Sample table1: Department

-dept\_id

-dept\_name

Sample table2: Employee

-emp\_id

-dept\_id

-mngr\_id

-emp\_name

-salary

**Create Table --->**

use [Northwind]

go

create table Department(

dept\_id int primary key,

dept\_name varchar(50),

);

create table Employee (

emp\_id int primary key,

dept\_id int,

mngr\_id int,

emp\_name varchar(50),

salary int,

foreign key (dept\_id) references Department (dept\_id),

);

1. **write a SQL query to find Employees who have the biggest salary in their Department**

with max\_salaries as (

select dept\_id, max(salary) as max\_salary

from Employee

group by dept\_id

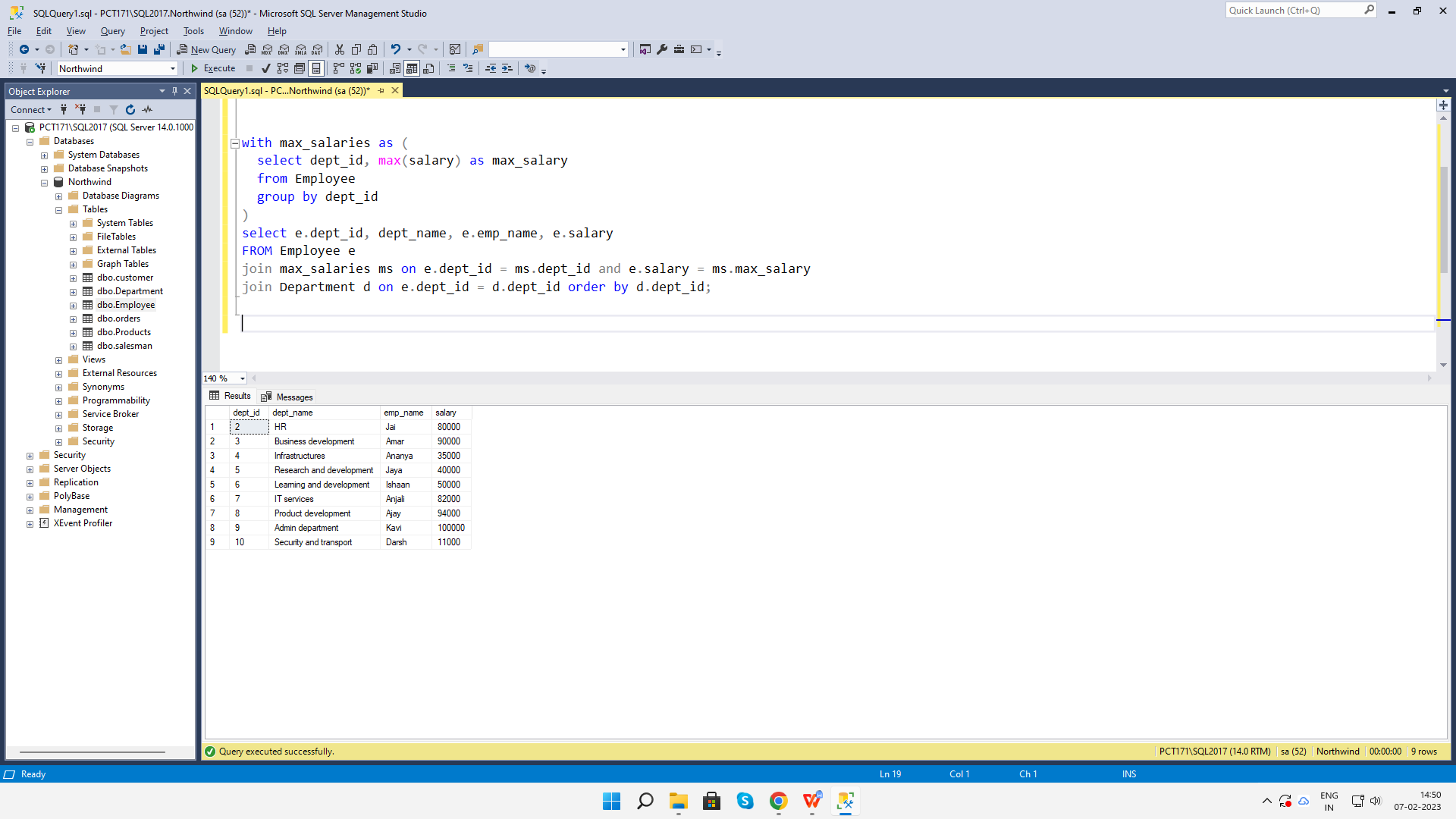
)

select e.dept\_id, dept\_name, e.emp\_name, e.salary

FROM Employee e

join max\_salaries ms on e.dept\_id = ms.dept\_id and e.salary = ms.max\_salary

join Department d on e.dept\_id = d.dept\_id order by d.dept\_id;



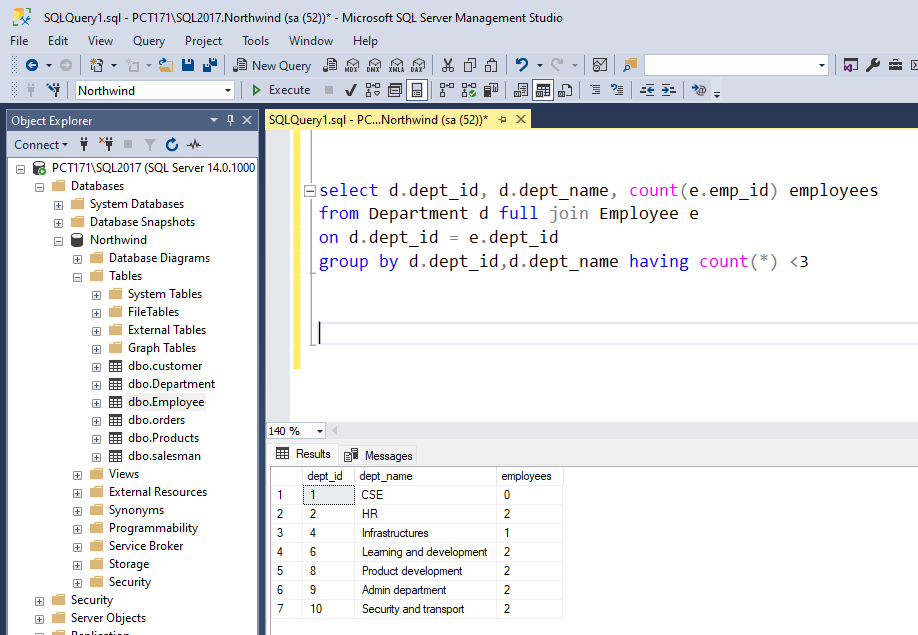
**2. write a SQL query to find Departments that have less than 3 people in it**

select d.dept\_id, d.dept\_name, count(e.emp\_id) employees

from Department d full join Employee e

on d.dept\_id = e.dept\_id

group by d.dept\_id,d.dept\_name having count(\*) <3



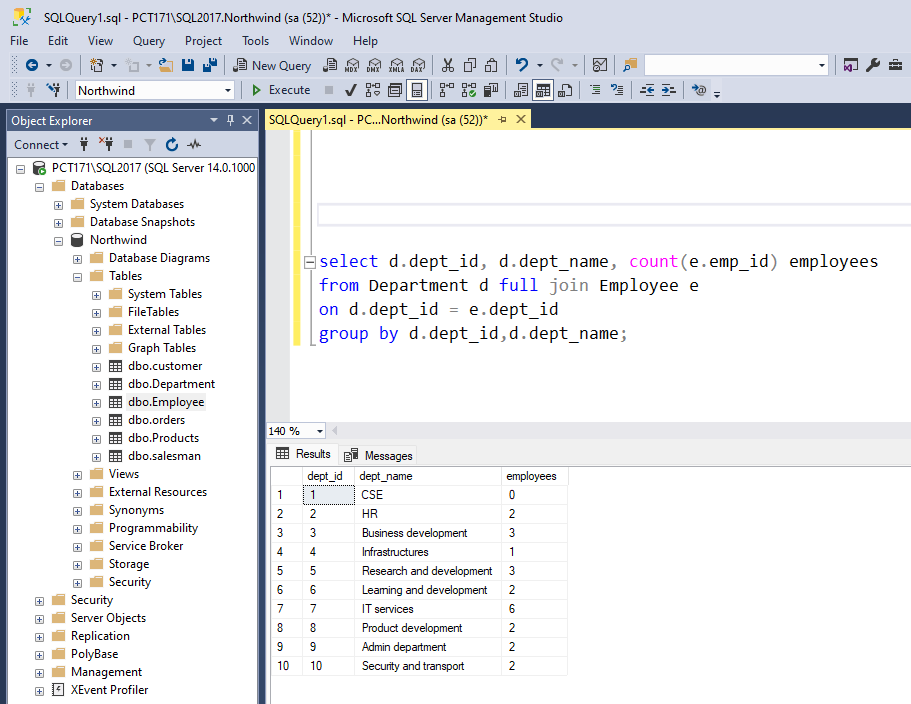
1. **write a SQL query to find All Department along with the number of people there**

select d.dept\_id, d.dept\_name, count(e.emp\_id) employees

from Department d full join Employee e

on d.dept\_id = e.dept\_id

group by d.dept\_id,d.dept\_name;



1. **write a SQL query to find All Department along with the total salary there**

select d.dept\_id, d.dept\_name, isnull(sum(e.salary), 0) Total\_salary

from Department d full join Employee e

on d.dept\_id = e.dept\_id

group by d.dept\_id,d.dept\_name;

